

JP 0090210618 AA

G01B 11/00

B25J 19/04

G01B 11/26

H05K 13/08

Anmeldenummer: 1996 13965

Anmeldedatum: 30.1.1996

Publikationsdatum: 12.8.1997

Prioritäten:

Land	Datum	Nummer	Art
------	-------	--------	-----

Erfinder: MURATA KAZUHIRO

MURAMAKI KATSUYA

INUZUKA RYOJI

Anmelder: MATSUSHITA ELECTRIC IND CO LTD

Titel: METHOD FOR MEASURING SCALE RATIO AND ROTARY ANGLE OF
RECOGNITION CAMERA

Zusammenfassung

PROBLEM TO BE SOLVED: To accurately measure the camera scale ratio and the rotary angle of a recognition camera.

SOLUTION: The coordinate positions of an XY cross robot 3 for allowing recognition tools 2 to be stuck to a suction nozzle 1 and for positioning the recognition tools 2 at the upper, lower, left, and right parts of the visual field of a recognition camera 4 are set. Then, at least three edge points are detected for straight line part of the contour of the recognition tools 2 located at an upper part, the expression of a straight line where the above each straight line part is approximated by the least square method from the above at least three edge points is obtained, each vertex position of the recognition tools 2 is obtained from the above straight line expression, and the coordinate position of the recognition camera of the center position of the recognition tools 2 is obtained from the above vertex position. Then, the coordinate position of the recognition camera 4 of the lower, left, and right recognition tools 2 is obtained and a scale ratio and a rotary angle are calculated from the coordinate position of the recognition camera 4 for the above upper, lower, left, and right recognition tools 2.

